

## **IN THE CLAIMS**

Please amend the claims as follows.

Claims 1-35 (canceled)

36. (Currently amended): A multiwall carbon nanotube arrangement, comprising:  
a substrate bearing chemically reactive groups; and at least one multiwall carbon nanotube, wherein the at least one multiwall carbon nanotube comprises:  
an outer wall, the outer wall being substantially oxidized wherein the substantial oxidation leads to an electrically insulating effect so that the outer wall of the multiwall carbon nanotube loses its ability to conduct electric current; and  
~~at least one~~ an inner wall, the ~~at least one~~ inner wall not being oxidized and wherein the conduction of electricity through the multiwall carbon nanotube is automatically taken over by the ~~at least one~~ inner wall after the substantial oxidation of the outer wall; ~~and~~  
wherein, due to the substantial oxidation of the outer wall, the at least one multiwall carbon nanotube is bound covalently to the chemically reactive groups of the substrate.

37. (Previously presented): A multiwall carbon nanotube arrangement as in claim 36, further comprising the nanotube being doped with boron nitride.

38. (Previously presented): A multiwall carbon nanotube arrangement as in claim 36, further comprising the substrate being an electronic component.

39. (Previously presented): A multiwall carbon nanotube arrangement as in claim 37, further comprising the substrate being an electronic component.

40. (Currently amended): A process for substantially oxidizing only the outer wall of a multiwall carbon nanotube and binding the multiwall carbon nanotube to a substrate, ~~wherein the substantial oxidation of only the outer wall leads to an electrically insulating effect and wherein the outer wall of the multiwall carbon nanotube loses its ability to conduct electric current and wherein the conduction of electricity through the multiwall carbon nanotube is automatically taken over by the next inner nanotube and wherein, due to the substantial oxidation of the outer wall, the multiwall carbon nanotube is bound covalently to the substrate,~~ the process comprising:

providing a substrate bearing chemically reactive groups;

providing a multiwall carbon nanotube with an outer wall and an inner wall;

subjecting the outer wall of the multiwall carbon nanotube to substantial oxidation, wherein the substantial oxidation of only the outer wall leads to an electrically insulating effect, and the conduction of electricity through the multiwall carbon nanotube is automatically taken over by the inner wall; and

bringing the multiwall carbon nanotube into contact with the substrate, wherein, due to the substantial oxidation of the outer wall, the multiwall carbon nanotube is bound covalently to the chemically reactive groups of the substrate.

41. (Previously presented) the process of claim 40, further comprising carrying out the substantial oxidation by reaction with an acid selected from the group consisting of nitric acid, sulfuric acid, chromic acid, Caro's acid, perchloric acid, iodic acid, and an organic peracid.

42. (Previously presented): The process of claim 41, further comprising using sulfuric acid as a mixture with hydrogen peroxide.

43. (Previously presented): The process as claimed in any of claims 40 to 42, further comprising carrying out the substantial oxidation of the outer wall of the multiwall carbon nanotube at a temperature up to the boiling point of the respective reaction mixture.

44. (Previously presented): The process as claimed in any of claims 40 to 42, further comprising doping the multiwall carbon nanotube with boron nitride.

45. (Currently amended): The process as claimed in any of claims 40 to 42, ~~further comprising ensuring the substrate is bearing chemically reactive groups or~~ wherein the step of providing the substrate bearing chemically reactive groups includes coating the substrate with a ~~further~~ material bearing chemically reactive groups.

46. (Currently amended): The process as claimed in claim 40, further comprising[[:]] carrying out the substantial oxidation of the outer wall of the multiwall carbon nanotube at a temperature up to the boiling point of the respective reaction mixture; and

~~ensuring the substrate is bearing chemically reactive groups or coating the substrate with a further material bearing chemically reactive groups.~~

47. (Currently amended): The process as claimed in claim 40, further comprising:

~~ensuring the substrate is bearing chemically reactive groups or coating the substrate with a further material bearing chemically reactive groups~~ wherein the step of providing the substrate bearing chemically reactive groups includes coating the substrate with a material bearing chemically reactive groups; and doping the multiwall carbon nanotube with boron nitride.

48. (Currently amended): The process as claimed in claim 40 46, further comprising:

~~carrying out the substantial oxidation of the outer wall of the multiwall carbon nanotube at a temperature up to the boiling point of the respective reaction mixture;~~

~~ensuring the substrate is bearing chemically reactive groups or coating the substrate with a further material bearing chemically reactive groups; and~~  
doping the multiwall carbon nanotube with boron nitride.

49. (Currently amended): The process as claimed in any of claims 40 to 42, further comprising separating off the multiwall carbon nanotube from a reactive mixture prior to bringing it into contact with the substrate.

50. (Currently amended): The process of claim 40, further comprising:

~~ensuring the substrate is bearing chemically reactive groups or coating the substrate with a further material bearing~~ providing the substrate with chemically reactive groups; and

~~separating off the multiwall carbon nanotube prior to bringing it into contact with the substrate.~~

51. (Currently amended): The process of claim 40, further comprising:

carrying out the substantial oxidation of the outer wall of the multiwall carbon nanotube at a temperature up to the boiling point of the respective reaction mixture; and

separating off the multiwall carbon nanotube from a reactive mixture prior to bringing it into contact with the substrate.

52 (Currently amended): The process of claim 40, further comprising:  
doping the multiwall carbon nanotube with boron nitride; ~~and~~  
~~separating off the multiwall carbon nanotube prior to bringing it into contact with~~  
~~the substrate.~~

53. (Currently amended): The process of claim 40, wherein the step of  
providing the substrate bearing chemically reactive groups includes coating the  
substrate with a material bearing chemically reactive groups, and further comprising:  
~~ensuring the substrate is bearing chemically reactive groups or coating the~~  
~~substrate with a further material bearing chemically reactive groups;~~  
carrying out the substantial oxidation of the outer wall of the multiwall carbon  
nanotube at a temperature up to the boiling point of the respective reaction  
mixture;  
doping the multiwall carbon nanotube with boron nitride; and  
separating off the multiwall carbon nanotube from a reactive mixture prior to  
bringing it into contact with the substrate.